



Ferrite cross reference



## Ferrite materials at: 25kHz, 100°C, 200mT

Core loss	Initial permeability	Ferroxcube	TDK-Epcos	Cosmo Ferrite	Kaschke	Magnetics	Fair-Rite	Proterial
$\approx 55 \text{ kW/m}^3$	$\approx 2000$	3C92, 3C96	N87	CF139				MB19D, MB20D
	$\approx 2500$	3C94	N97	CF297	k2010	R, P		ML25D
	$\approx 3000$	3C97	N96					ML33D
$\approx 85 \text{ kW/m}^3$	$\approx 1500$		N92					
	$\approx 2500$	3C90					78	ML24D
	$\approx 3000$	3C91	N51			F		MB28D

Disclaimer: No two materials from different manufacturers are the same. This table is conceived as a fast cross reference amongst some parameters of the materials of different manufacturers, for a detailed comparison please refer to the datasheet of each material.

For the latest version of this cross reference list and anything related to SmartNetics and Power Smart Control, please visit [PowerSmartControl.com](http://PowerSmartControl.com).



## Ferrite materials at: 100kHz, 100°C, 200mT

Core loss	Initial permeability	Ferroxcube	TDK-Epcos	Cosmo Ferrite	Kaschke	Magnetics	Fair-Rite	Proterial
$\approx 315 \text{ kW/m}^3$	$\approx 2000$	3C92, 3C96						MB20D
	$\approx 2500$	3C94	N97	CF297	k2010			ML25D
	$\approx 3000$	3C95, 3C97						ML33D
$\approx 425 \text{ kW/m}^3$	$\approx 1500$		N92					
	$\approx 2000$		N87	CF139				MB19D
	$\approx 2500$	3C90				R, P		ML24D
	$\approx 3000$	3C91	N96					
$\approx 650 \text{ kW/m}^3$	$\approx 1500$		N49					
	$\approx 2500$						78	
	$\approx 3000$		N51			F		

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## Ferrite materials at: 500kHz, 100°C, 50mT

Core loss	Initial permeability	Ferroxcube	TDK-Epcos	Cosmo Ferrite	Kaschke	Magnetics	Fair-Rite	Proterial
$\approx 100 \text{ kW/m}^3$	$\approx 1500$	3F36	N49					ML25D, ML27D
	$\approx 2500$							
$\approx 200 \text{ kW/m}^3$	$\approx 1500$		N92	CF139				
	$\approx 2000$		N87					
	$\approx 2500$		N97					
$\approx 300 \text{ kW/m}^3$	$\approx 2000$	3C96	N51, N96					
	$\approx 2500$							
	$\approx 3000$							

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